	Application No.	Applicant(s)
Notice of Allowability	09/742,316	KINDER ET AL.
	Examiner	Art Unit	
	Li B. Zhen	2126	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *response file 6/25/2004 and interview on 7/4/2004.*

2. ☒ The allowed claim(s) is/are *16-33, renumbered as 1-18.*

3. ☒ The drawings filed on *18 July 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some*   c)☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a)☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1)☐ hereto or 2)☐ to Paper No./Mail Date _____ .

    (b)☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), * * Paper No./Mail Date *11/04/2004* .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

MENG-AI T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Ms. Marisa J. Dubuc on November 4 and 5, 2004.

The application has been amended as follows:

a.   Replace claims 16, 18 and 26 with the following:

16. A method for managing a distributed transaction comprising one or more

transaction flows between respective pairs of nodes in a network of interconnected

nodes, each of said transaction flows being accompanied by an originating node

identifier identifying the originating node, said method being performed by one of said

nodes as a local node and comprising the steps of:

maintaining a registry comprising zero or more entries corresponding to inbound

flows from other nodes, each of said entries containing the originating node identifier

accompanying the corresponding inbound flow and a local node identifier identifying the

local node, said local node identifier being used to identify the local node in outbound

transaction flows to other nodes resulting from said inbound flow;

upon receiving an inbound flow from another node, determining whether there is

an entry in said registry for the originating node identifier accompanying said inbound

flow;

if there is no entry for said originating node identifier and there is no entry for

another inbound flow for the same transaction, creating an entry in said registry

containing said originating node identifier and a local node identifier identifying the local

node; and

if there is an entry for another inbound flow for the same transaction, creating an

entry in said registry containing the originating node identifier accompanying said

inbound flow and a local node qualifier identifying the local node that is different from

any other local node identifier in said registry for that transaction.

18. A method for providing a path-sensitive branch registry for cyclic distributed

transactions, comprising:

receiving a flow from a superior node in a cyclic distributed transaction tree, the

flow including a global tree identification and a branch qualifier;

for each subordinate node in the transaction tree:

searching a registry of the subordinate node for the global tree

identification and the branch qualifier;

if there is no entry for said global tree identification and there is no entry

for another inbound flow for the same transaction, creating an entry in said registry

containing said global tree identification and a branch qualifier identifying the

subordinate node; and

if there is an entry for another inbound flow for the same transaction,

creating an entry in said registry containing the global tree identification accompanying

said inbound flow and a branch qualifier identifying the subordinate node that is different

from any other branch qualifier in said registry for that transaction.

26. A system for utilizing a path-sensitive branch registry for cyclic distributed

transactions, the system comprising:

a plurality of nodes in a cyclic distribution tree, the plurality of nodes include a

superior node and subordinate nodes;

a flow initiated by the superior node and received by a first of the subordinate

nodes, the flow including a global tree identification and a branch qualifier;

wherein for each subordinate node in the transaction tree:

a registry of the subordinate node is searched for the global tree

identification and the branch qualifier;

if there is no entry for said global tree identification and there is no entry

for another inbound flow for the same transaction, an entry is created in said registry

containing said global tree identification and a branch qualifier identifying the

subordinate node; and

if there is an entry for another inbound flow for the same transaction, an

entry is created in said registry containing the global tree identification accompanying

said inbound flow and a branch qualifier identifying the subordinate node that is different

from any other branch qualifier in said registry for that transaction.

Conclusion

2.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768.

The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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